

**DIARYL SULFIDE DERIVATIVE AND PEST CONTROLLING AGENT****Publication number:** JP2000026421**Publication date:** 2000-01-25**Inventor:** TOYABE KEIJI; ITO MINORU; NISHIYAMA KIYOTOSHI;  
ASAHIDA MITSU HARU; WADA NOBUHIDE; YANO YUKO;  
KOMATSU MASA AKI; FUJISAWA TOYOICHI; SHIMAZU  
HOTOKU**Applicant:** KUMIAI CHEMICAL INDUSTRY CO; IHARA CHEMICAL IND CO**Classification:**

- international: A01N43/08; A01N43/10; A01N43/40; A01N43/54; A01N43/653;  
A01N43/76; A01N43/78; A01N43/80; C07D213/70;  
C07D213/71; C07D213/85; C07D213/89; C07D249/12;  
C07D261/10; C07D263/46; C07D275/03; C07D277/36;  
C07D277/40; C07D277/48; C07D277/56; C07D277/64;  
C07D307/68; C07D333/34; C07D333/36; C07D333/38;  
C07D409/04; C07D275/03; A01N43/02; A01N43/34;  
A01N43/48; A01N43/64; A01N43/72; C07D213/00;  
C07D249/00; C07D261/00; C07D263/00; C07D275/00;  
C07D277/00; C07D307/00; C07D333/00; C07D409/00;  
C07D275/00; (IPC1-7): C07D213/70; A01N43/08; A01N43/10;  
A01N43/40; A01N43/54; A01N43/653; A01N43/76; A01N43/78;  
A01N43/80; C07D213/71; C07D213/85; C07D213/89;  
C07D249/12; C07D261/10; C07D263/46; C07D275/03;  
C07D277/36; C07D277/40; C07D277/48; C07D277/56;  
C07D277/64; C07D307/68; C07D333/34; C07D333/36;  
C07D333/38; C07D409/04

- european:

**Application number:** JP19990019418 19990128**Priority number(s):** JP19990019418 19990128; JP19980030324 19980129

Report a data error here

**Abstract of JP2000026421**

**PROBLEM TO BE SOLVED:** To produce a new compound useful as an insecticide capable manifesting remarkable effects especially on *Plutella xylostella*, *Chilo suppressalis*, etc., which are agricultural and horticultural pests, having high efficacies even in a small dose and excellent in safety. **SOLUTION:** This compound is represented by formula I [Q denotes N or the like; X1 denotes H or the like; X2 denotes H or the like; the heteroaryl denotes a group represented by formula II or the like; R1 and R2 denote each H or the like; however, at least one thereof denotes SO<sub>n</sub>R<sub>4</sub>; R<sub>4</sub> denotes a 1-4C alkyl or the like; (n) denote 0-2, with the proviso that X1 and X2 are not simultaneously H or the like], e.g. 2-(2,6-dichloro-4-trifluoromethylphenyl)-5-isopropylthiazole. The compound represented by formula I is produced by reacting, e.g. a compound represented by formula II (a group represented by formula IV is the above heteroaryl) [e.g. 2-(2,6-dichloro-4-trifluoromethylphenyl)-5-mercaptothiazole] with a compound represented by the formula; R<sub>4</sub>L<sub>1</sub> (L<sub>1</sub> is a halogen or the like) (e.g. isopropyl iodide) in the presence of a base such as potassium carbonate in a solvent.

Data supplied from the [esp@cenet](mailto:esp@cenet) database - Worldwide